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It is this variation, and thus the contrast, between different elements that make X-rays so useful for imaging. Tissue is mainly water and hydrocarbons and thus has a  $1/e$  thickness of many centimetres for hard X-rays, whereas bones in the body have a lot of Ca and a correspondingly smaller X-ray transmission.



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The phase difference, between the scattered wave from a volume element around the origin and one around  $r$  is  $-k \cdot r$ .

The resulting phase difference is thus

$$\phi(r) = (k - k') \cdot r = Q \cdot r \text{ where } Q$$

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$\mathbf{Q} = \mathbf{k} - \mathbf{k}'$  (1.10)  $\mathbf{Q} = \mathbf{k} - \mathbf{k}'$  is known as the wavevector transfer or scattering vector.

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to the far field. Fresnel and Fraunhofer diffraction. P and O illuminated by an incident plane wave radiate outgoing circular waves detected at D. In the far-field limit (Fraunhofer diffraction) the phase difference is  $\Delta\phi = -k \cdot r$ .

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$\lambda = 2.82 \times 10^{-5} \text{ \AA}$  Structure: (E field photon and e) Sensitivity to  $r_0 (\frac{e^2}{mc^2})$



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Magnetism: (E, H field photon and e and  $\mu$   
B) Neutron  $0.1675 \times 10^{-27}$  Kg  $\frac{1}{2}$  -1.913  $\mu$   
N  $b \sim r^0$  (Short range nuclear forces)  $b \text{ mag}$   
 $\sim r^0$  ( $\mu$  n.B dipp) Resonant Scattering: 100  
 $r^0! r^0 = 1.4 \times 10^{-2}$

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